Safety data sheet
according to 1907/2006/EC, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· **Trade name:** **AKSTAB NLS28**

· **Article number:** SA59002
· **CAS Number:**
91031-62-8
· **EC number:**
292-966-7
· **Index number:**
082-001-00-6

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

· **Sector of Use**
SU0 Other
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU12 Manufacture of plastics products, including compounding and conversion
· **Product category** PC32 Polymer preparations and compounds
· **Process category**
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC14 Tabletting, compression, extrusion, pelletisation, granulation
PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
PROC24 High (mechanical) energy work-up of substances bound in /on materials and/or articles
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
· **Environmental release category**
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC3 Formulation into solid matrix
ERC5 Use at industrial site leading to inclusion into/onto article
· **Article category** AC13 Plastic articles
· **Application of the substance / the mixture** Additive for PVC processing

· 1.3 Details of the supplier of the safety data sheet

AKDENIZ CHEMSON KIMYA SAN. ve TIC. A.S.
Kemalpasa O.S.B.Mah.Izmir Kemalpasa Asfalti Cad No:45
35735 KEMALPASA IZMIR
· **Manufacturer/Supplier:**
Akdeniz Chemson Kimya Sanayi ve Tic. A.S.
Kemalpasa O.S.B. Mah, No45, 35735
Kemalpasa-Izmir/TURKEY
kivanc.akkas@akdenizchemson.com
Certificate No:01.134.02

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· **Further information obtainable from:**
KIVANC AKKAS
Akdeniz Kimya Sanayi ve Tic. A.S.
Ataturk Mah. No 45 35212 Ulucak
Kemalpasa - IZMIR/TURKEY
Tel. : +90 232 877 0144-378
Fax: +90 232 877 0150
Akdeniz Chemson Kimya Sanayi ve Tic. A.S.
Kemalpasa O.S.B. Mah, No45, 35735
Kemalpasa-Izmir/TURKEY
Tel: +90 232 877 0144-378
Fax: +232 877 0150

· **1.4 Emergency telephone number:** National Poison Centres

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

GHS08

Carc. 2	H351	Suspected of causing cancer.
Repr. 1A	H360Df-H362	May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.
STOT RE 1	H372	Causes damage to organs through prolonged or repeated exposure.

GHS09

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H332	Harmful if inhaled.

· 2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Fatty acids, C16-18, lead salts

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· **Hazard statements**
H302+H332 Harmful if swallowed or if inhaled.
H351 Suspected of causing cancer.
H360Df-H362 May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P260 Do not breathe dusts or mists.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P263 Avoid contact during pregnancy and while nursing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.1 Substances**
· **CAS No. Description**
91031-62-8 Fatty acids, C16-18, lead salts
· **Identification number(s)**
· **EC number:** 292-966-7
· **Index number:** 082-001-00-6

· **SVHC**	
91031-62-8	Fatty acids, C16-18, lead salts

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** Call for a doctor immediately.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:**
Wear fully protective suit.
Mouth respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Keep away from ignition sources.
Ensure adequate ventilation
Avoid formation of dust.
· **6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
Store away from flammable substances.
· **Further information about storage conditions:**
Store in dry conditions.
Protect from humidity and water.
Keep container tightly sealed.

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· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
91031-62-8 Fatty acids, C16-18, lead salts	
OELS	Long-term value: 0.15 mg/m³

· **DNELs**
In=Industrial
Prof=Professional
Cons=Consumer

LLE=Long term, local effects
LSE=Long therm, systemic effects
SLE=Short term, local effects
SSE=Short term, systemic effects

91031-62-8 Fatty acids, C16-18, lead salts	
NOAEL	40 µg/l (Adult neurological function) 10 µg/l (Developmental effect on foetus of pregna)

· **NOEL**	
91031-62-8 Fatty acids, C16-18, lead salts	
NOEL (72h)	9.2 µg/l (Mytilus trossolus (48h, dev. abnor.))

· **PNECs**	
91031-62-8 Fatty acids, C16-18, lead salts	
PNEC	6.5 µg/l (Fresh water)
	3.4 µg/l (Marine water)
PNEC	0.1 mg/l (STP Micro-organisms)
PNEC	41 mg/kg (Fresh water sediment)
	164.2 mg/kg (Marine water sediment)
	147 mg/kg (Terrestial plant)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Do not eat or drink while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Respiratory protection:**
Filter P3
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
Leather gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**	
· **Appearance:**	
Form:	Solid
Colour:	White
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/freezing point:	101-105 °C
Initial boiling point and boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Not determined.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density at 20 °C:**	1.46 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
water at 20 °C:	1.54 g/l
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Solvent content:**	
VOC (EC)	0.00 %
Solids content:	100.0 %

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· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** Strong oxidizing agents
· **10.6 Hazardous decomposition products:** Lead Oxides

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Harmful if swallowed or if inhaled.

· **LD/LC50 values relevant for classification:**		
91031-62-8 Fatty acids, C16-18, lead salts		
Oral	LD50	2,000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Acute effects (acute toxicity, irritation and corrosivity)**
(a) acute toxicity
Sparingly soluble inorganic lead compounds have generally been found to be of relatively low acute toxicity by ingestion, in contact with skin, and by inhalation. Nevertheless current EU regulations require this substance to be classified as harmful by ingestion and inhalation.

(b) skin corrosion/irritation
Studies of similar sparingly soluble inorganic lead compounds have shown that they are not corrosive or irritating to the skin of rabbits. This is supported by the lack of reports of irritant effects from occupational settings.

(c) serious eye damage/irritation
Studies of similar sparingly soluble inorganic lead compounds have shown that they are not corrosive or irritating to the eyes of rabbits.

(d) respiratory/skin sensitisation
There is no evidence that dioxobis(stearato)trilead or other sparingly soluble inorganic lead compounds cause respiratory or skin sensitisation.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **Germ cell mutagenicity**
The evidence for genotoxic effects of highly soluble inorganic lead compounds is contradictory, with numerous studies reporting both positive and negative effects. Responses appear to be induced by indirect mechanisms, mostly at very high concentrations that lack physiological relevance.
· **Carcinogenicity**
There is evidence that highly soluble inorganic lead compounds may have a carcinogenic effect, particularly on the kidneys of rats. However, the mechanisms by which this effect occurs are still unclear. Epidemiology studies of workers exposed to inorganic lead compounds have found a limited association with stomach cancer. This has led to the classification by IARC that inorganic lead compounds are probably carcinogenic to humans (Group 2A).

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Suspected of causing cancer.

· **Reproductive toxicity**
Exposure to high levels of inorganic lead compounds may cause adverse effects on male and female fertility, including adverse effects on sperm quality. Prenatal exposure to inorganic lead compounds is also associated with adverse effects on neurobehavioural development in children.
May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.

· **STOT-single exposure**
Sparingly soluble inorganic lead compounds have generally been found to be of relatively low acute toxicity by ingestion, in contact with skin, and by inhalation, with no evidence of any local or systemic toxicity from such exposures.

· **STOT-repeated exposure**
Inorganic lead compounds are cumulative poisons and may be absorbed into the body through ingestion or inhalation. Inorganic lead compounds have been documented in observational human studies to produce toxicity in multiple organ systems and body function including the haemotopoetic (blood) system, kidney function, reproductive function and the central nervous system.
Causes damage to organs through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **EC10,NOEC Freshwater**	
91031-62-8 Fatty acids, C16-18, lead salts	
NOEC	8.2 mg/l (Hyalella azteca (42d, mortality))

· **EC10, NOEC Freshwater sediment**	
91031-62-8 Fatty acids, C16-18, lead salts	
Freshwater sediment	573 mg/kg (Tubifex tubifex (28d,reproduction))

· **EC10, NOEC Marine water**	
91031-62-8 Fatty acids, C16-18, lead salts	
Marine water	680 µg/l (Neanthes arenaneodentata(28d,growth))

· **EC10, NOEC STP Micro-organisms**	
91031-62-8 Fatty acids, C16-18, lead salts	
STP Micro-organism	1 mg/kg (Protozoan community(24h-LC10))

· 12.2 Persistence and degradability
Lead is an inorganic substance and does not degrade. It is persistent in the environment. Biodegradation is not relevant for inorganic substances. The stearate cation, however, is expected to biodegrade.

· 12.3 Bioaccumulative potential
Inorganic lead is considered to be bioaccumulating in the environment, and may accumulate in aquatic and terrestrial plants and animals.

· 12.4 Mobility in soil
It is sparingly soluble in water. The lead anion is expected to be adsorbed onto soils and sediments. Mobility is expected to be low.

· **EC10, NOEC Terrestial (Plants)**	
91031-62-8 Fatty acids, C16-18, lead salts	
Terrestial (plants)	57 mg/kg (Hordeum vulgare)

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· **Ecotoxical effects:**

· **Ecological toxicity values** **Reliable acute aquatic test results (tests conducted with soluble lead salts)**	
91031-62-8 Fatty acids, C16-18, lead salts	
72h EC50 (pH>6,5-7,5)	52 µg/l (Pseudokirchneriella subcapitata)
72h EC50 (pH<7,5-8,5)	233.1 µg/l (Pseudokirchneriella subcapitata)
48h EC50 (pH>5,5-8,5)	73.6 µg/l (Daphnia magna)
96h LC50 (pH>6,5-8,5)	107 µg/l (Oncoryhnchus mykiss)

· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
· **12.5 Results of PBT and vPvB assessment** Not applicable.
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**	
06 03 13*	solid salts and solutions containing heavy metals
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN2291

· **14.2 UN proper shipping name**
· **ADR** 2291 LEAD COMPOUND, SOLUBLE, N.O.S. (Fatty acids, C16-18, lead salts),
· **IMDG, IATA** LEAD COMPOUND, SOLUBLE, N.O.S. (Fatty acids, C16-18, lead salts)

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· 14.3 Transport hazard class(es)

· **ADR, IMDG**

· **Class**	6.1 Toxic substances.
· **Label**	6.1

· **IATA**

· **Class**	6.1 Toxic substances.
· **Label**	6.1

· 14.4 Packing group
· **ADR, IMDG, IATA** III

· 14.5 Environmental hazards:
· **Marine pollutant:** Yes
Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)

· 14.6 Special precautions for user
Warning: Toxic substances.
· **Danger code (Kemler):** 60
· **EMS Number:** F-A,S-A
· **Segregation groups** Lead and its compounds
· **Stowage Category** A

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

· **Transport/Additional information:** Not dangerous according to the above specifications.

· **ADR**
· **Limited quantities (LQ)** 5 kg
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
· **Transport category** 2
· **Tunnel restriction code** E

· **IMDG**
· **Limited quantities (LQ)** 5 kg
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":** UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S. (FATTY ACIDS, C16-18, LEAD SALTS), 6.1, III, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** Substance is not listed.
· **Seveso category** E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30, 63, 72

· **Regulation (EU) No 649/2012**
Annex I Part 1

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**	
91031-62-8	Fatty acids, C16-18, lead salts

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department.
· **Contact:** Mr. KIVANC AKKAS
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1